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Chapter 4 - Organization for Aircraft Launch and Recovery Equipment Maintenance

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Chapter 4

Organization for Aircraft Launch and Recovery Equipment Maintenance

4.1 Command Structure

4.1.1 The Chief of Naval Operations (CNO) is responsible for the material condition, readiness and training of the operating forces of the Navy. The CNO carries out these responsibilities through the direction of the Naval Systems Commands, as well as the Fleet and Type Commanders, and their supporting subordinate commands and offices. In addition, the CNO commands such shore activities as assigned by the Secretary of the Navy (SECNAV).

4.1.2 CNO is responsible for the disciplined use of resources and the operating efficiency of all commands and activities under his/her command. Figure 4-1 shows the CNO command organization.

4.1.3 The Director, Air Warfare Division (N78), establishes policy, requirements, and priorities for carrier operations and maintenance. N78 is also responsible for programming the resources to support the Aircraft Launch and Recovery Equipment (ALRE) program.

4.1.4 The Director, Surface Warfare Division (N76), establishes policy, requirements, and priorities for surface ships maintenance and is responsible for programming resources for Shore Intermediate Maintenance Activities (SIMAs).

4.2 Command Relationships

4.2.1 Command relationships and the exercise of command responsibilities for Navy shore activities are in SECNAVINST 5400.14A and are not affected by this instruction.

4.2.2 Figure 4-2 is provided to illustrate the command relationships for ALRE maintenance.

4.3 Command Responsibilities

4.3.1 The aviation type commanders (TYCOMs), Commander, Naval Air Force, U.S. Atlantic Fleet (COMNAVAIRLANT) and Commander, Naval Air Force, U.S. Pacific Fleet (COMNAVAIRPAC), shall support the ALREMP by achieving CNO-directed readiness objectives and safety standards while optimizing total resource requirements. This responsibility includes repair of ALRE equipment at the most economical level of maintenance. It also includes the efficient use of data as a management tool to improve equipment material condition and safety. Program responsibilities include funding, manpower management, training and material management. Aviation TYCOMs are the

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logistics agents for aeronautical equipment in the Atlantic and Pacific Fleets and provide technical liaison with surface type commanders, systems commanders and their shore activities, and fleet carriers. Aviation TYCOMs are responsible for ensuring sound ALRE maintenance procedures and practices. Their functions include approving technical availabilities analyzing malfunction reports, screening ship's work requests (OPNAV 4790/2K) for accomplishment by ship's force, intermediate and depot level maintenance activities, controlling NAVAIRSYSCOM service change material, and coordination of NAVAIRWARCENACDIV Lakehurst's Carrier and Field Service Units (CAFSUs) support.

4.3.2 Carrier group commanders (COMCARGRUs) are responsible for the overall functional and operational condition of ships under their cognizance with special emphasis on planning efforts prior to deployments. The commanding officer of a ship is ultimately responsible for the maintenance and material condition of the ship's ALRE.

4.3.3 Each fleet aircraft carrier (CV/CVN) is designated by OPNAVINST 4700.7J as an intermediate maintenance activity (IMA) comprised of the aircraft intermediate maintenance department (AIMD), and engineering, supply and weapons departments. AIMDs and the repair divisions of the engineering departments will provide appropriate ALRE intermediate maintenance support, where capability and capacity exist.

4.4 Support Responsibilities

4.4.1 The Commander, Naval Supply Systems Command (COMNAVSUPSYSCOM) provides material in support of the operation and maintenance of aircraft launch and recovery equipment. Every effort is made to have material located when and where it is needed. The ALRE supply organization is shown in Figure 4-3.

4.4.1.1 NAVICP Philadelphia is the primary Navy inventory control point (ICP) responsible for ALRE material support of the ALREMP. ALRE material consists of spares and repair parts for catapults, arresting gear, visual landing aids (VLA), and support equipment (SE), common and peculiar. NAVICP Philadelphia's responsibilities include:

a. Computation of ALRE material requirements in both range and depth. This responsibility includes conducting and coordinating provisioning conferences and the identification and transfer of items to be managed by the Defense Logistics Agency (DLA) and other cognizant inventory control points (ICPs).

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b. Budgeting for and funding of appropriate ALRE material requirements.

c. Procuring material directly from industry or via other government agencies.

d. Allocating NAVAIRSYSCOM-procured material to stock points, distribution of material to fill replenishment stock requirements, and referral of requisitions to stock points to meet requirements.

e. Directing the proper disposal of defective ALRE material when authorized by NAVAIRWARCENACDIV Lakehurst.

f. Maintaining ALRE spares and associated spare parts lists/ordering information. The catalog function includes obtaining National Stock Numbers (NSNs) from the Defense Logistics Service Center (DLSC).

g. Determining wholesale system supply asset repair/rework requirements of repairable components to be processed by naval or commercial repair/rework facilities.

h. Providing areas of interest data to NAVICP Mechanicsburg, to maintain allowances for ALRE material in support of the CV/CVN Coordinated Shipboard Allowance List (COSAL).

4.4.1.2 NAVICP Mechanicsburg, is a field activity of NAVSUPSYSCOM located at Mechanicsburg, PA. NAVICP Mechanicsburg, is the ICP for Integrated Launch and Recovery Television Surveillance System (ILARTS) and catapult trough components; its ALRE responsibilities include those listed for NAVICP Philadelphia, in paragraph 4.4.1.1 and:

a. Maintaining the CV/CVN COSAL. The COSAL is a technical and supply management document designed to enable ships to achieve maximum operating capability for extended periods, independent of external logistic support.

4.4.2 The Commander, Naval Air Systems Command (COMNAVAIRSYSCOM) is responsible for research, design, development, test, acquisition, and logistics support of all ALRE, associated material, and equipment. Figure 4-4 shows the COMNAVAIRSYSCOM organization as it pertains to ALRE.

4.4.2.1 As the technical manager for ALRE maintenance, COMNAVAIRSYSCOM:

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- a. Provides technical direction, guidance on procedures, and management review for each level of maintenance.
- b. Provides ALRE maintenance procedural documents sufficient to clearly define the maintenance functions, organizations, and responsibilities to perform these functions.
- c. Implements, manages, and maintains the ALREMP.
- d. Assists CNO and others in developing training programs for officer and enlisted personnel assigned to ALRE maintenance.
- e. Provides ALRE maintenance material allowance lists, together with lists of facilities that are authorized, available and required.
- f. Makes recommendations concerning design of the ALRE Maintenance Data System (MDS) to reduce redundant, time consuming, and unnecessary reporting, and to ensure MDS is compatible for all three levels of maintenance as well as the Ships' 3-M System.

4.4.2.2 COMNAVAIRSYSCOM provides ALRE technical direction as directed by CNO. A major portion of this effort is done using a centralized system for the issue and control of technical directives (TDs). Technical direction does not relieve commands from the responsibility of keeping seniors in the chain of command informed of material conditions affecting operational readiness. CNO, COMNAVAIRSYSCOM, and other interested commands must be kept fully informed if operational necessity precludes TD compliance within specified time limits. Any authority operating or having operational control over ALRE has full authority and responsibility to impose such additional operating restrictions as may be prudent. TYCOMs shall be concerned with technical direction matters. Requests for changes and amplification to technical direction shall be addressed to COMNAVAIRSYSCOM. When fleet operational requirements cannot be met as a result of limitations imposed by technical direction, recommendations shall be provided to CNO.

4.4.2.3 Program Management/NAVAIR Acquisition Executive (AIR-1.0), the Aircraft Launch and Recovery Equipment (ALRE) Program Office (PMA251) is responsible for providing the material acquisition and logistics support functional management for ALRE installed in ships, in aircraft, and ashore from inception through service life of the systems involved. Responsibilities include:

- a. Certifying the safety and operability of ship's installed ALRE systems.

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- b. Coordinating the shipboard installation of all COMNAVAIRSYSCOM cognizant equipment in ships.
- c. Developing the total aviation facilities requirements data package for integration into any Navy ship design.
- d. Ensuring compatibility of ship and aircraft installed automatic carrier landing systems (ACLSs).
- e. Representing AIR-4.0 on the Ship Acquisition and Improvement Panel of the CNO Executive Board.
- f. Providing technical direction to the NAVAIRWARCENACDIV Lakehurst and its CAFSU organization and exercising technical cognizance of Naval Aviation Depot (NAVAVNDEPOT)/Naval Air Warfare Center Aircraft Division (NAVAIRWARCENACDIV) Voyage Repair Team (VRT) operations worldwide.
- g. Acting as the COMNAVAIRSYSCOM ALREMP manager.

4.4.3 COMNAVAIRSYSCOM has command and support responsibility over the NAVAIRWARCENACDIV Lakehurst. This enables NAVAIRSYSCOM Headquarters to fulfill its role in matters pertaining to ALRE maintenance and material support for fleet readiness.

4.4.3.1 NAVAIRWARCENACDIV Lakehurst is the cognizant field activity (CFA) for aircraft launch and recovery equipment under COMNAVAIRSYSCOM. It is responsible for research, engineering, development, test and evaluation, systems integration, limited production, procurement, overhaul/repair, and in-service engineering of ALRE. It also provides technical and logistic support to all activities in support of installation, operation, overhaul, maintenance, repair and certification inspections of ALRE, and provides representatives to the Board of Inspection and Survey (INSURV). CAFSUs are the technical representatives of NAVAIRWARCENACDIV Lakehurst and coordinate support efforts between NAVAIRWARCENACDIV Lakehurst, fleet, and support activities. Figure 4-5 depicts the NAVAIRWARCENACDIV Lakehurst organization.

4.4.4 COMNAVAIRSYSCOM has command and support responsibility over the NAVAVNDEPOT/NAVAIRWARCENACDIV designated as ALRE Depot Maintenance Activities. These industrial establishments, through their VRTs, perform a complete range of repair operations on ALRE.

4.4.4.1 NAVAVNDEPOT/NAVAIRWARCENACDIV VRTs are small groups of shipyard trade specialists who are cross-trained and capable of functioning in two or more trades. VRT shall be overseen by a NAVAIRWARCENACDIV CAFSU Representative to ensure ALRE Maintenance standards established by NAVAIRWARCENACDIV Lakehurst are

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maintained. VRTs are established at the NAVAVNDEPOT in North Island, CA and at NAVAIRWARCENACDIV detachments in Norfolk, VA and Mayport, FL. VRT personnel perform designated depot level maintenance, repair, refurbishment, replacement and modification tasks in direct support of NAVAIRSYSCOM shipboard and shore-based ALRE installations. Artisans are responsible for ensuring the proper quality assurance inspections of all work performed per established procedures.

4.4.5 Commander, Naval Sea Systems Command (COMNAVSEASYS COM) has responsibility for ALRE equipment foundations, components of the catapults steam system prior to the launch valve, high pressure air for hydraulic systems, electrical power, stabilization inputs to VLA systems from the ship's stable element, and interior communications to all areas. NAVSEASYS COM also prepares ship alterations to ALRE, as recommended by NAVAIRSYSCOM, authorizing the depot maintenance activities concerned to make approved alterations. Naval shipyards and NAVSEASYS COM shore activities are primary designated overhaul points (DOPs) for ALRE. Figure 4-6 shows the NAVSEASYS COM ALRE maintenance organization.

4.4.5.1 Naval Shipyards (NAVSHIPYDs). The NAVSHIPYDs, located at Bremerton (including San Diego detachment) and Norfolk, furnish depot level repair facilities and technical guidance for availabilities and overhaul periods. These activities perform major repairs, modifications and overhauls to ALRE and are responsible for the proper installation, alteration and test of this equipment under current drawings and directives.

4.4.5.2 Fleet Technical Support Centers (FTSCs) are shore activities of NAVSEASYS COM. The FTSC, Atlantic is located at St. Julien's Creek Annex, Norfolk, VA and FTSC, Pacific is located in San Diego, CA. The FTSCs, using technical data received from NAVAIRWARCENACDIV Lakehurst, are responsible for maintaining ALRE Maintenance Requirement Cards (MRCs).

4.4.5.3 Supervisors of Shipbuilding, Conversion, and Repair, USN, (SUPSHIPS) are NAVSEASYS COM shore activities which award and administer Navy and other Department of Defense ship-building, design, conversion, repair, and facility contracts at commercial shipyards. SUPSHIP responsibilities include approval of certain design plans, inspections, tests and certifications. The SUPSHIP office also functions as a procurement activity and administers the Commercial Industrial Services (CIS) program, integrates the requirements of several commands and manages the planning and engineering efforts for overhauls and availabilities.

4.4.5.4 The Naval Sea Logistics Center (NAVSEALOGCEN), and Navy Maintenance Support Office (NAMSO) are a field activities of

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COMNAVSEASYSCOM and serves as the Maintenance Data System central data bank for the Ships' 3-M system.

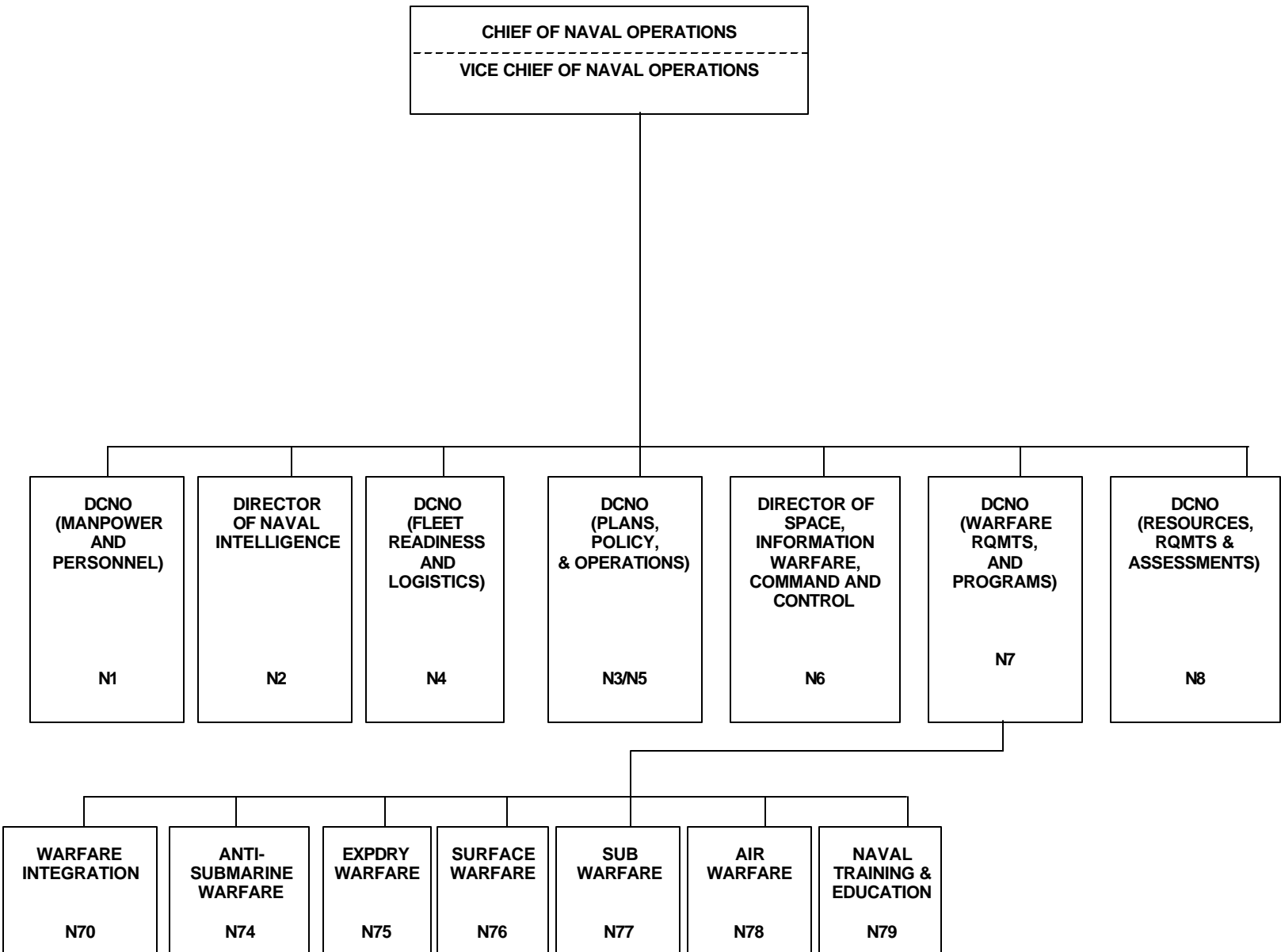


Figure 4-1. Office of the Chief of Naval Operations Organization

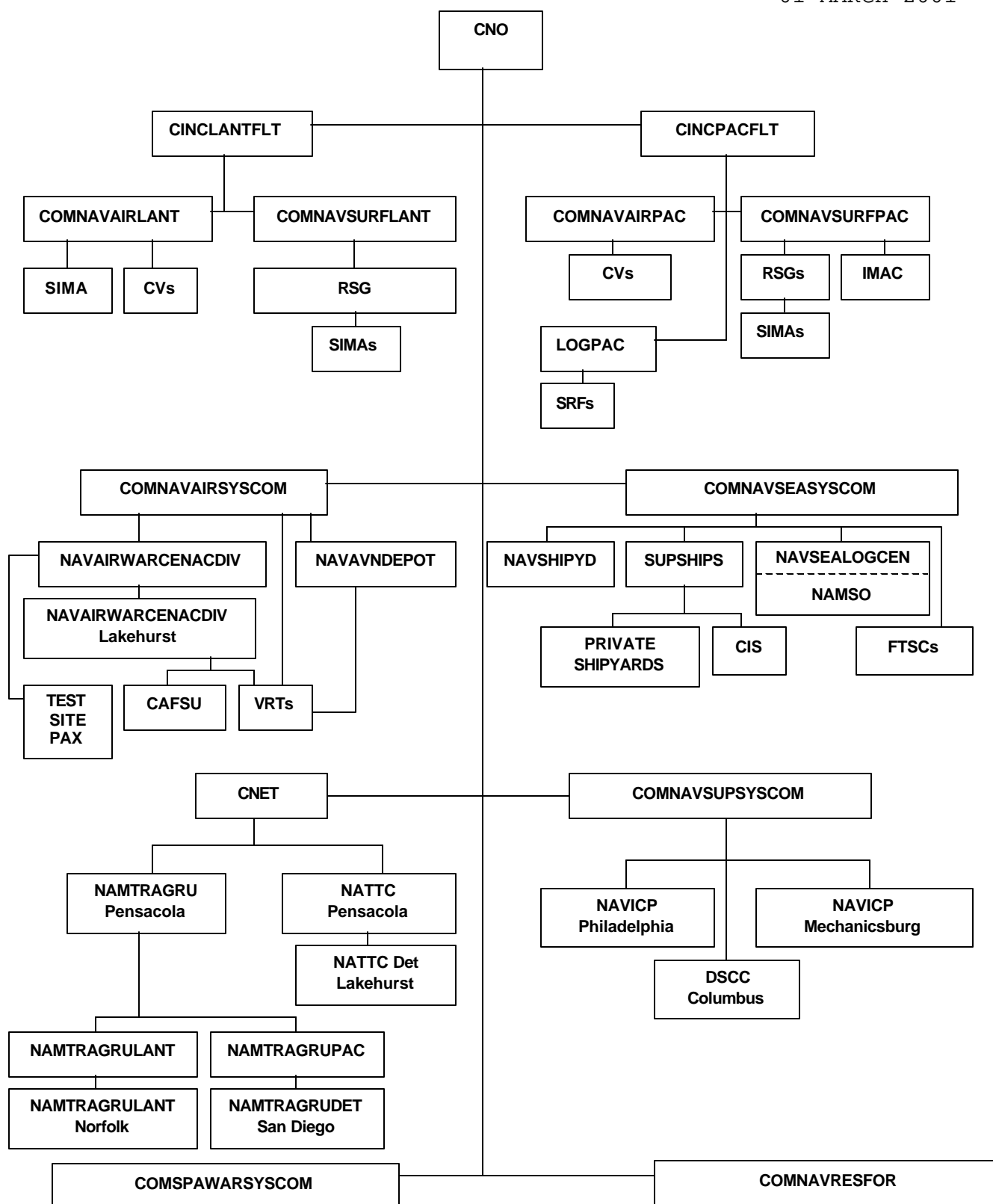


Figure 4-2. ALRE Maintenance Organization

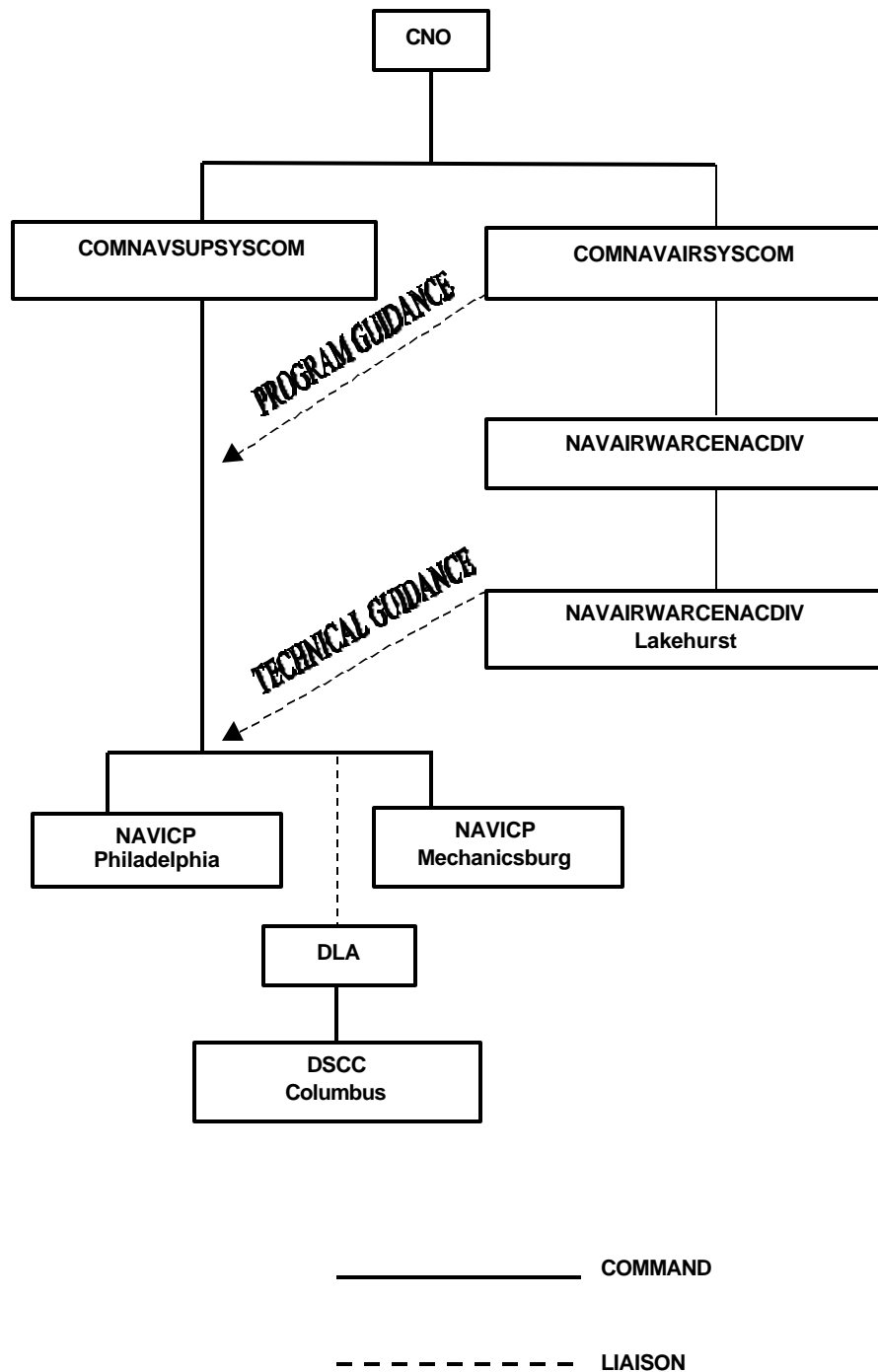


Figure 4-3. ALRE Supply Organization

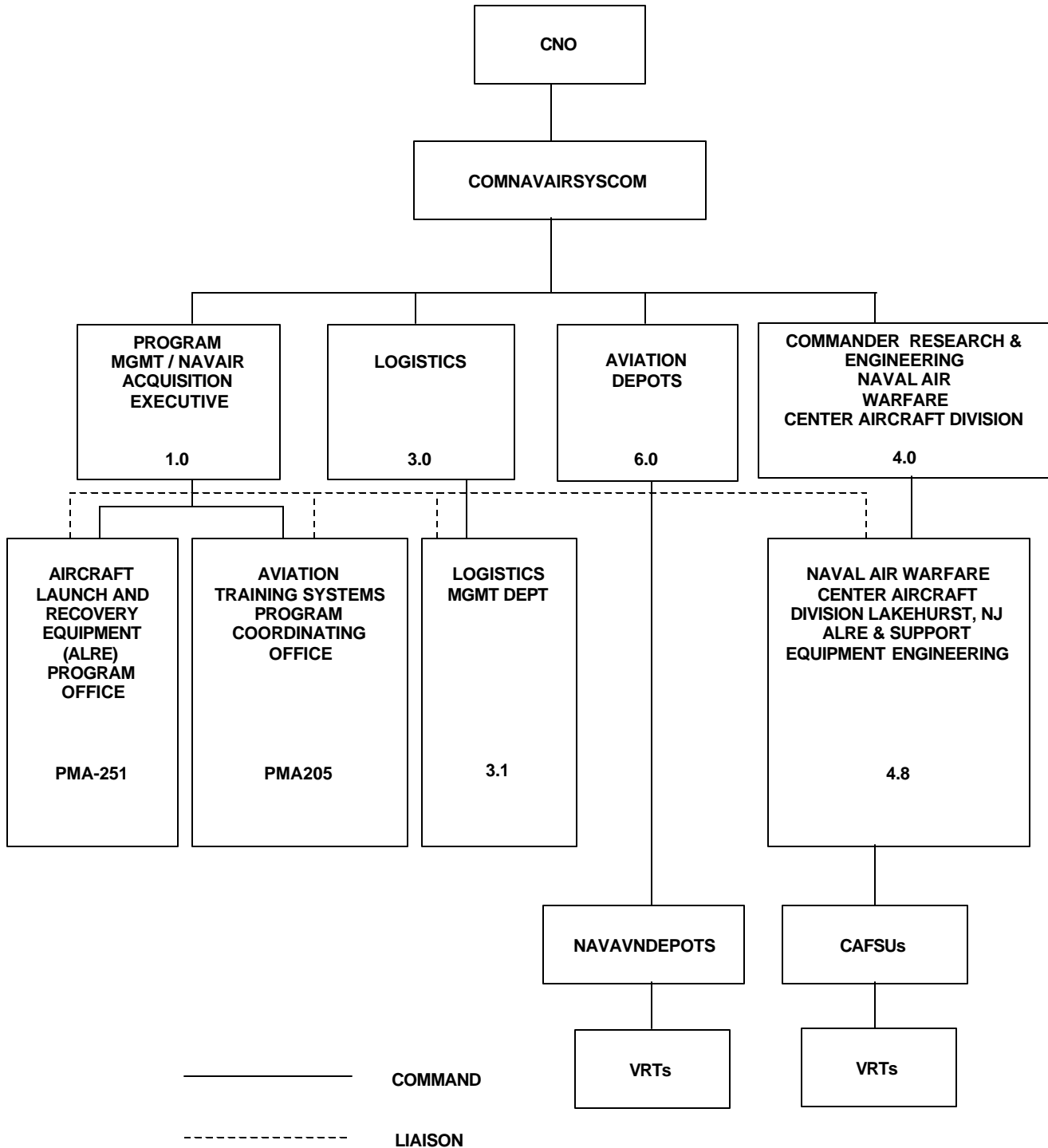


Figure 4-4. NAVAIRSYSCOM ALRE Maintenance Organization

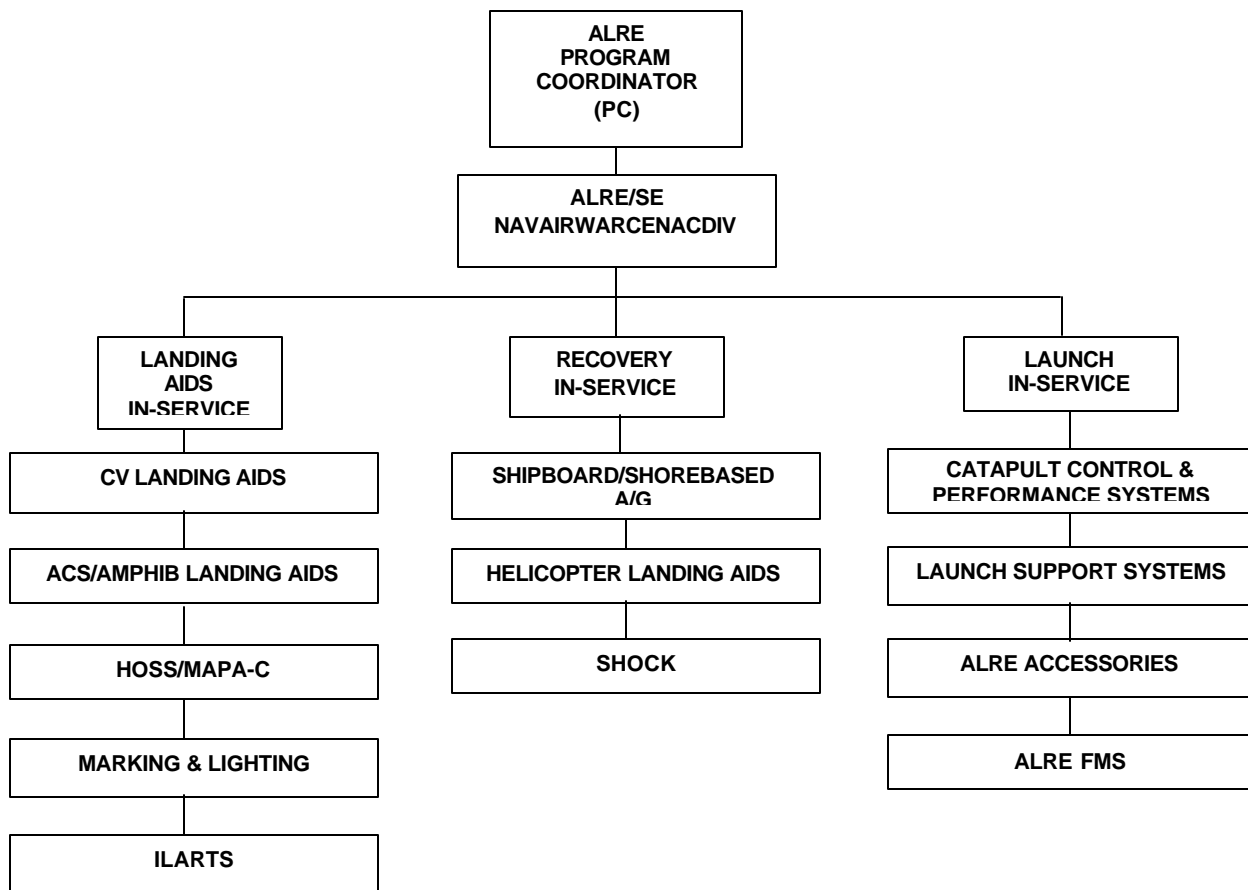


Figure 4-5. Naval Air Warfare Center Aircraft Division (NAVAIRWARCENACDIV) Lakehurst Organization

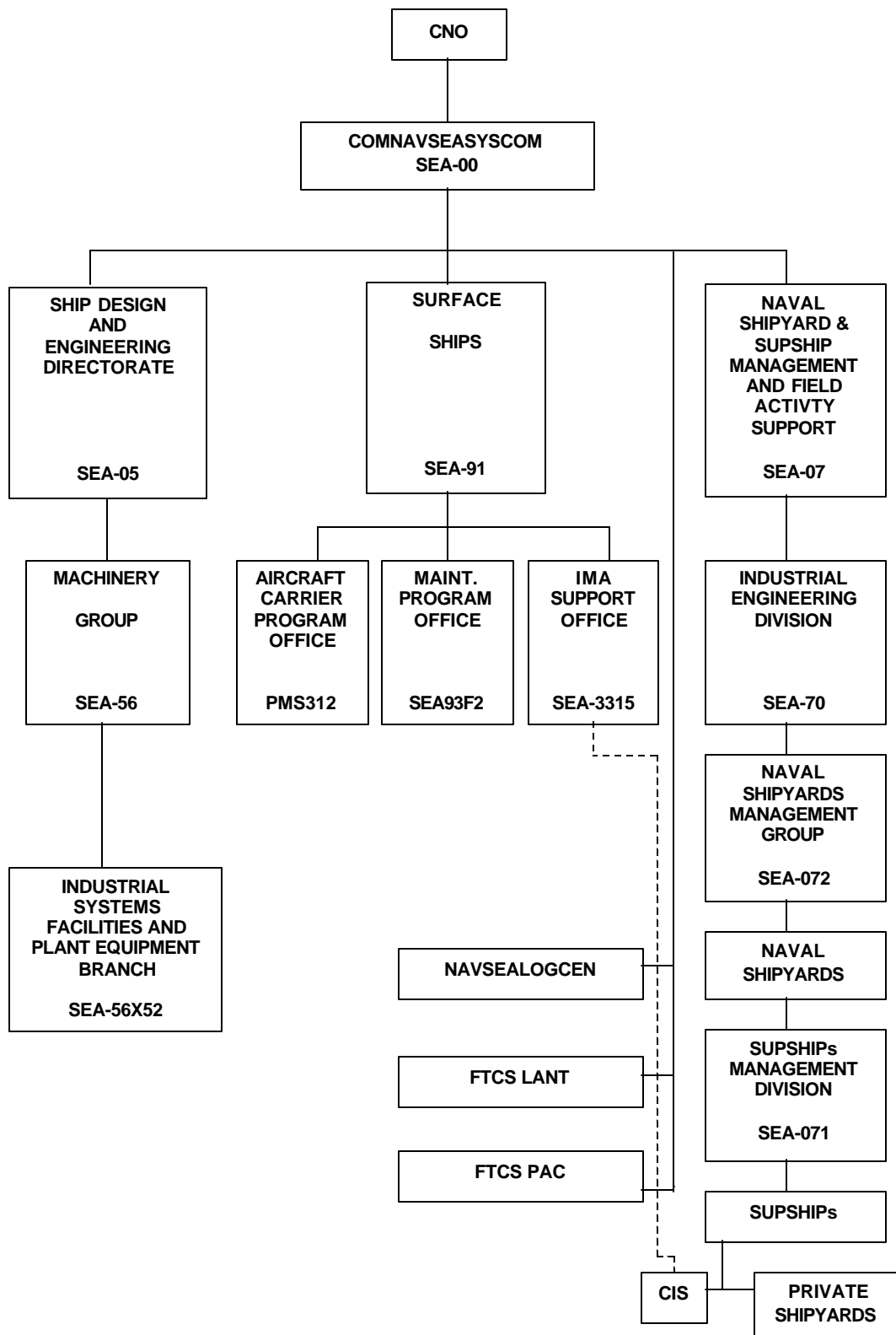


Figure 4-6. NAVSEASYS COM ALRE Maintenance Organization